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EXERCISE DESERT ROCK LAS VEGAS NV

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EXERCISE DESERT ROCK VII. OPERATION ORDER NUMBER 2. ARMY, CAMP --ETC(U)

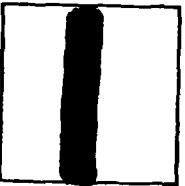
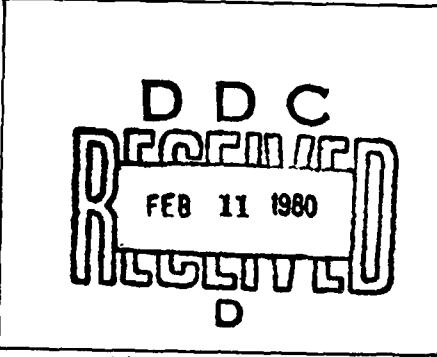
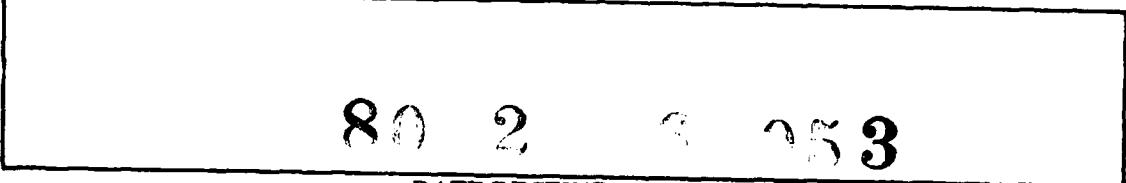
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		May 1957	
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Exercise
~~CONFIDENTIAL~~ DESERT ROCK 7, OPERATION ORDER 2

Army. Camp Desert Rock. Nevada

15 May 1957

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Hq. Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Operation Order 2

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CAME SPRINGS, SPECTOR RANGE, PURPOSE
LAKE, FRENCHMAN LAKE, and MERCURY Shoots.

Time Zone: Pacific Daylight Time

Task Organization: Annex A, Task Organization.

1. SITUATION.--The Atomic Energy Commission detonates an atomic device (FRANKLIN) at H-hour on D-day which will be observed by approximately 250 observers. After the shot personnel will monitor in the ground-zero area, and Ordnance and Signal field tests will be performed.

2. MISSION.--Hq. Exercise Desert Rock VII, supervises and coordinates Desert Rock Army and Navy participation in shot FRANKLIN in area T-3 in the NEVADA TEST SITE commencing at H-hour on D-day to:

a. Indoctrinate selected observers in effects of atomic weapons (Project 51.1 and selected personnel from CAMP DESERT ROCK).

b. Track the movement of radioactive clouds, determine the height of the clouds, and investigate the feasibility of special and standardized Army radar equipment for such use (Project 50.3).

c. Observe operability of various types of Ordnance equipment under blast, thermal, and radioactivity effects of nuclear explosions (Project 50.7).

d. Conduct monitoring exercises to train Navy personnel in an induced field of comparatively low radiation (Project 51.1).

3. EXECUTION.

a. Concept of operation.--Personnel from CAMP DESERT ROCK and Project 51.1 will observe Shot FRANKLIN from a safe position in the vicinity of YUCCA LAKE (Annex B, Opm Overlay). Shortly after the shot, Desert Rock rad-safe personnel will monitor and mark the assigned pie sector. Upon announcement of R-hour, personnel from Project 51.1 will move to the pie sector and conduct monitoring exercises. Project 50.3 will operate radar equipment from approved site. Project 50.7 will position equipment in approved locations (in cooperation with AFSPW Project 2.4).

b. 50th Chemical Plat.--Provide rad-safety support as required. Annex C, Rad-Safety Plan.

c. C Co B, 84th Engr Bn (Reinf)--Provide Engineer support as required.

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEV.DA
151000 May 1957

Operation Order 2

Map: NEV.DA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPCOSE LAKE, FRENCHMAN LAKE, and MERCURY Shoots.

Time Zone: Pacific Daylight Time

Task Organization: Annex A, Task Organization.

1. SITUATION.--The Atomic Energy Commission detonates an atomic device (FRANKLIN) at H-hour on D-day which will be observed by approximately 250 observers. After the shot personnel will monitor in the ground-zero area, and Ordnance and Signal field tests will be performed.

2. MISSION.--Hq, Exercise Desert Rock VII, supervises and coordinates Desert Rock Army and Navy participation in shot FRANKLIN in area T-3 in the NEV.DA TEST SITE commencing at H-hour on D-day to:

- a. Indoctrinate selected observers in effects of atomic weapons (Project 51.1 and selected personnel from CAMP DESERT ROCK).
- b. Track the movement of radioactive clouds, determine the height of the clouds, and investigate the feasibility of special and standardized Army radar equipment for such use (Project 50.3).
- c. Observe operability of various types of Ordnance equipment under blast, thermal, and radioactivity effects of nuclear explosions (Project 50.7).
- d. Conduct monitoring exercises to train Navy personnel in an induced field of comparatively low radiation (Project 51.1).

3. EXECUTION.

a. Concept of operation.--Personnel from CAMP DESERT ROCK and Project 51.1 will observe Shot FRANKLIN from a safe position in the vicinity of YUCCA LAKE (Annex B, Opn Overlay). Shortly after the shot, Desert Rock rad-safe personnel will monitor and mark the assigned pic sector. Upon announcement of R-hour, personnel from Project 51.1 will move to the pic sector and conduct monitoring exercises. Project 50.3 will operate radar equipment from approved site. Project 50.7 will position equipment in approved locations (in cooperation with AFSPW Project 2.4).

b. 50th Chemical Plat.--Provide rad-safety support as required. Annex C, Rad-Safety Plan.

c. C Co, 84th Engg Bn (Reinf)--Provide Engineer support as required.

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Operation Order 2, Concord

d. Unit, 8th Field Hosp.—Provide medical support as required. Annex D, Medical.

e. 293d MP Co (-).—Provide traffic control as required. Annex E, Provost Marshal.

f. 526th Ord Co (H&M) (-).—Provide Ordnance support as required.

g. 232d Signal Co.—Provide Signal support as required. Annex F, Signal.

h. 26th TC Bn.—Provide transportation support as required. Annex G, Transportation.

i. Project 50.3.—Operate radar equipment as per par 2b above from approved site in the vicinity of coordinates 893872. Only equipment approved during power run will be operated. All other equipment will be completely secured.

j. Project 50.7.—Conduct test of Ordnance equipment in conjunction with AFSWP Project 2.4.

k. Project 51.1.—Move tactical vehicles (35) to observer area (coordinates 895925) with Desert Rock red-safe vehicles (7) on D-1; move personnel to observer area with other observers (Annex G, Transportation); observe shot; at R-hour move on marked trail to approved pie sector ($S60^{\circ}$ E— $S30^{\circ}$ W); conduct monitoring exercises.

l. Desert Rock Aviation Section.—Provide one L-20 aircraft on ground alert at the Desert Rock air strip for air evacuation of casualties to the Nellis Air Force Base Hospital. Annex D, Medical.

m. Coordinating instructions.

(1) Unit commanders will insure that all Desert Rock personnel have film badges.

(2) All personnel will be familiar with provisions of the Red-Safe Program.

(3) All selected observers will possess a valid SECRET security clearance. Security rosters by vehicle will be prepared by S-3 (and certified by S-2 or his representative) for presentation to the MERCURY Security Office prior to the scheduled movement. Badged vehicle escort officers will be selected for each vehicle in the movement. Escort officers will load assigned vehicles by roster, red-lining the names of those personnel not present at the entrucking formation. As each vehicle arrives at MERCURY Gate No. 1, one of two copies of the corrected roster will be handed to the guard. Upon return after the shot, the second copy will be signed by the escort officer and turned in to the S-3 office for file.

(4) Vehicle escort officers will maintain absolute control of their groups from the time vehicles are first loaded until they are returned to CAMP DESERT ROCK.

(5) All personnel will be informed that two minutes prior to R-hour a 30-second siren signal will be sounded. At this time all personnel will turn their backs to GZ, close their eyes, and cover their eyes with their hands until the announcement to recover is made.

(6) All personnel will be cautioned not to pick up any items in the ground-zero area. Although innocent in appearance these items may be radioactive.

(7) Radio silence will be maintained and all gasoline engines turned off from shot-time minus 15 minutes until shot-time plus ~~CONGRADED TO PERSONNEL~~ ~~LTO AIRCR-B-3~~ #354.15 25 JULY 57

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354.15 25 JULY 57

Operation Order 2, Continued

d. Unit, 8th Field Hosp.--Provide medical support as required. Annex D, Medical.

e. 293d MP Co (-).--Provide traffic control as required. Annex E, Provost Marshal.

f. 526th Ord Co (H&M) (-).--Provide Ordnance support as required.

g. 232d Signal Co.--Provide Signal support as required. Annex F, Signal.

h. 26th TC Bn.--Provide transportation support as required. Annex G, Transportation.

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l. Desert Rock Aviation Section.--Provide one L-20 aircraft on ground alert at the Desert Rock air strip for air evacuation of casualties to the Hollis Air Force Base Hospital. Annex D, Medical.

m. Coordinating instructions.

(1) Unit commanders will insure that all Desert Rock personnel have film badges.

(2) All personnel will be familiar with provisions of the Red-Safe Program.

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(4) Vehicle escort officers will maintain absolute control of their groups from the time vehicles are first loaded until they are returned to CAMP DESERT ROCK.

(5) All personnel will be informed that two minutes prior to H-hour a 30-second siren signal will be sounded. At this time all personnel will turn their backs to GZ, close their eyes, and cover their eyes with their hands until the announcement to recover is made.

(6) All personnel will be cautioned not to pick up any items in the ground-zero area. Although innocent in appearance these items may be radioactive.

(7) Radio silence will be maintained and all gasoline engines turned off from shot-time minus 15 minutes until shot-time plus 10 minutes. ~~CONFIDENTIAL TO REFUGEE~~ ~~REFUGEE LTD~~ ~~AMCIR-S-3~~
~~354.15 25 JULY 57~~

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354.15 25 JULY 57

Operation Order 2 (Cont'd)

(8) Evacuation in case of emergency will be made direct to CAMP DESERT ROCK. Annex H, Evacuation Plan.

4. ADMINISTRATION AND LOGISTICS.

a. Administration.

(1) Current administrative instructions apply.

(2) Uniform and equipment.

Fatigues	Pistol belt
Combat boots	Canteens w/cup and cover
Field Jackets	First-aid packet and pouch
Helmet w/liner	Special equipment as required
(Soft cap or liner may be worn)	

(3) Hot breakfast will be served in CAMP DESERT ROCK prior to entrucking.

b. Logistics.

(1) Medical.—Aid station will be established at observer area (coordinates 895925). Annex D, Medical.

(2) Chemical.—Decontamination station will be established at coordinates 848888.

(3) Transportation.

(a) List of required vehicles and drivers' names will be furnished to S-3 by the Transportation Officer. S-3 will prepare observer rosters.

(b) Vehicles will be marked on the right-front windshield with a number system, ie, A-1, A-2, etc.

(c) The serial will contain one empty vehicle to transport personnel in case of breakdown.

(d) A wrecker will be located at the rear of the serial. Vehicles which break down during the movement to the observer area will be pushed to the side of the road and left until the return trip. At that time the wrecker will tow these vehicles back to CAMP DESERT ROCK.

5. COMMAND AND SIGNAL.

a. Annex F, Signal.

b. Commanding General or his representative will be located at CP-1. Forward CP, Exercise Desert Rock VII, will open in the observer area at H-60 minutes.

JENSEN
Brig Gen

Annexes: A—Task Organization
B—Operation Overlay
C—Rad-Safety Plan

Appendixes: 1 Rad-Safe Control Net

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534.15 25 JULY 57

Operation Order 2 (Cont)

(8) Evacuation in case of emergency will be made direct to CAMP DESERT ROCK. Annex H, Evacuation Plan.

4. ADMINISTRATION AND LOGISTICS.

a. Administration.

(1) Current administrative instructions apply.

(2) Uniform and equipment.

Fatigues	Pistol bolt
Combat boots	Canteens w/cup and cover
Field Jackets	First-aid packet and pouch
Helmet w/liner	Special equipment as required
(Soft cap or liner may be worn)	

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JENSEN
Brig Gen

Annexes: A—Task Organization
B—Operation Overlay
C—Rad-Safety Plan

Appendixes: 1 Rad-Safe Control Net

REF ID: A20250
534.15 25 JULY 57

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354.15 25 JULY 57

Operation Order 2 (Cont'd)

Annexes, Cont'd

- D—Medical
- E—Provost Marshal
 - Appendixes: 1—Traffic Control Plan
- F—Signal
 - Appendixes: 1—AN/GRC-26 Net
 - 2—Motorola-Type Net
 - 3—Wire Circuits
- G—Transportation
- H—Emergency Evacuation Plan
- I—Distribution List

Distributions: Special

OFFICIALS:

Starkey
GSA/X
S-3

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Operation Order 2 (Cont'd)

Annexes, Cont'd

- D—Medical
- E—Provost Marshal
 - Appendices: 1—Traffic Control Plan
- F—Signal
 - Appendices: 1—AN/GRC-26 Net
 - 2—Motorola-Type Net
 - 3—Wire Circuits
- G—Transportation
- H—Emergency Evacuation Plan
- I—Distribution List

Distribution: Special

OFFICIAL:

Barney
G-RAY
S-3

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex A (Task Organization) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPO SE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

HQ, EXERCISE DESERT ROCK VII

Deputy Exercise Director - - - - - Brig Gen W. A. Jensen
Executive Officer - - - - - Col C. H. Bunning
Control Group Commander - - - - - Lt Col S. L. Garay
US Army Garrison, CAMP DESERT ROCK (6019-03)

SUPPORT TROOPS

50th Chemical Platoon
Co B, 84th Engr Bn (Reinf)
Unit, 8th Field Hosp
293d MP Co (-)
526th Ord Co (HAM) (-1 Plat)
656th QM Petrol Supply Co (-)
Det, 53d QM Subsistence Supply Co
Det, 163d QM Laundry Co
232d Signal Co
Signal Supply Team (KA)
Signal Maintenance Teams (GK and RD)
Signal Pictorial Teams (AB, FC, FH, and FF)
Signal Photo Dosimetry Team
26th TC Bn
Hq & Hq Co
2d TC Truck Co (Pet)
38th TC Co (Hv)
351st TC co (Med)
TC Provisional Aircraft Maint Det

DESERT ROCK PROJECTS

Project 50.3, Evaluation Medium Range Detonation and Cloud Tracking System
Project 50.7, Test of Ordnance Material
Project 51.1, Rad-Safe Monitor Training

JENSEN
Brig Gen

Distribution: Special

OFFICIAL:

Garay
GARAY
S-3

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex A (Task Organization) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPO SE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

HQ, EXERCISE DESERT ROCK VII

Deputy Exercise Director - - - - - Brig Gen W. A. Jensen
Executive Officer - - - - - Col C. H. Dunning
Control Group Commander - - - - - Lt Col S. L. Geray
US Army Garrison, CAMP DESERT ROCK (6019-03)

SUPPORT TROOPS

50th Chemical Platoon
Co B, 84th Engr Bn (Reinf)
Unit, 8th Field Hosp
293d MP Co (-)
526th Ord Co (HAM) (-1 Plat)
656th QM Petrol Supply Co (-)
Det, 53d QM Subsistence Supply Co
Det, 163d QM Laundry Co
232d Signal Co
Signal Supply Team (KA)
Signal Maintenance Teams (GK and RD)
Signal Pictorial Teams (AB, FC, FH, and FF)
Signal Photo Dosimetry Team
26th TC Bn
Hq & Hq Co
2d TC Truck Co (Pet)
38th TC Co (Hv)
351st TC co (Med)
TC Provisional Aircraft Maint Det

DESERT ROCK PROJECTS

Project 50.3, Evaluation Medium Range Detonation and Cloud Tracking System
Project 50.7, Test of Ordnance Material
Project 51.1, Rad-Safe Monitor Training

JENSEN
Brig Gen

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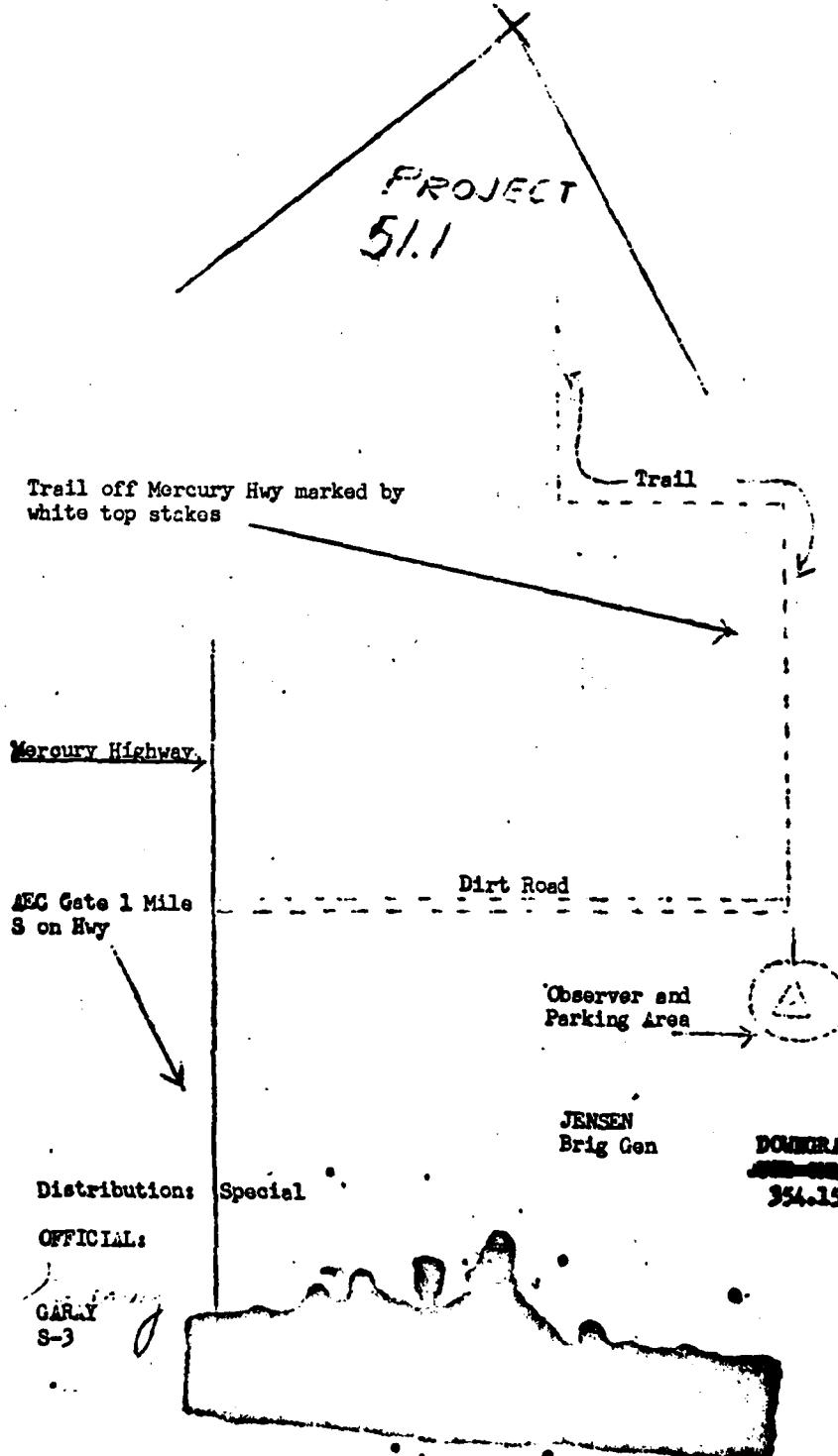
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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK, (872536), NEVADA
151000 May 1957

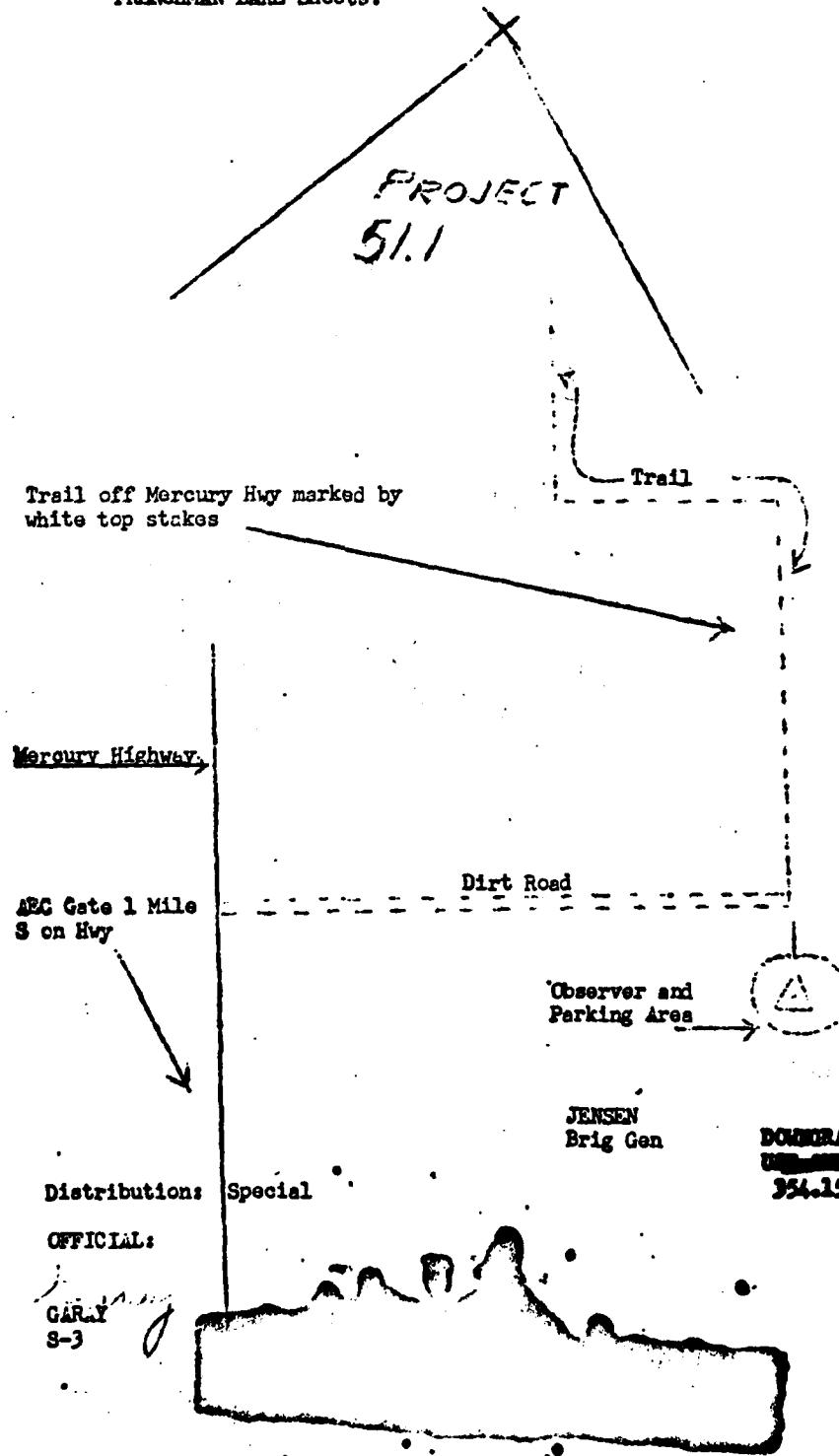
Annex B (Opn Overlay) to Opn O 2
Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, PAPOOSE LAKE and
FRENCHMAN LAKE Sheets.



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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK, (872536), NEVADA
151000 May 1957

Annex B (Opn Overlay) to Opn O 2
Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, PAPOOSE LAKE and
FRENCHMAN LAKE Sheets.



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CONT

N.J., Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex C (Rad-Safety Plan) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIH SPRING and PAPoose LAKE Sheets.

1. SITUATION.—See Opn O 2.

2. MISSION.—To provide radiological safety for operations conducted in the areas assigned and on the routes thereto to include organization, personnel, equipment, dosimetry, field decontamination, and operating procedures and restrictions for all participants based on criteria established by the Department of Defense and the Test Director.

3. EXECUTION.

a. Survey of assigned pie-sector.

(1) 50th Cml Plt (Svc) will provide four (4) motorized, radio-equipped RAD-SAFE monitor teams.

(2) After detonation of the atomic device, two (2) RAD-SAFE monitor teams will move forward to pie-sector area upon order of the Rad-Safety Officer and monitor the pie-sector boundary roads. (For route, see Annex B, Operation Overlay.) Signs will be erected to establish the 10 mr/hr and 100 mr/hr points. Teams will then withdraw behind the 1 mr/hr point and await arrival of the Project 51.1 monitors.

(3) RAD-SAFE teams will notify the Rad-Safety Officer of their survey data as it is determined.

(4) Project 51.1 monitor teams will be released at the observation area by the Rad-Safety Officer after the Test Director has announced R-hour and after the RAD-SAFE monitors have completed their preliminary survey. Teams will be guided to the pie-sector by a RAD-SAFE representative.

(5) Project 51.1 monitor teams will conduct a survey of the pie-sector by directing teams toward ground zero along predetermined radial lines. Situation permitting, teams will establish isointensity lines of predetermined dose-rates not to exceed 5 r/hr. Survey readings will be reported to a control point established in vicinity of coordinates 880982. A RAD-SAFE representative will be located at this control point to enforce established safety criteria and to provide technical assistance when required.

(6) Two (2) stand-by emergency RAD-SAFE monitor teams will be located with the Rad-Safety Officer in vicinity of coordinates 895925.

b. Dosimetry.—See Memo Nr 8, this headquarters.

c. Field decontamination.—See Memo Nr 9, this headquarters.

d. Coordinating instructions.

(1) All radiological survey data will be turned in to the Rad-Safety Officer in Bldg T-112, CAMP DESERT ROCK, upon completion of exercise.

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H-1, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex C (Red-Safety Plan) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPLISH SPRING and PAPoose LAKE Sheets.

1. SITUATION.—See Opn O 2.

2. MISSION.--To provide radiological safety for operations conducted in the areas assigned and on the routes thereto to include organization, personnel, equipment, dosimetry, field decontamination, and operating procedures and restrictions for all participants based on criteria established by the Department of Defense and the Test Director.

3. EXECUTION.

a. Survey of assigned pie-sector.

(1) 50th Cml Plt (Svc) will provide four (4) motorized, radio-equipped RAD-SAFE monitor teams.

(2) After detonation of the atomic device, two (2) R&D-SAFE monitor teams will move forward to pie-sector area upon order of the Rad-Safety Officer and monitor the pie-sector boundary roads. (For route, see Annex B, Operation Overlay.) Signs will be erected to establish the 10 mr/hr and 100 mr/hr points. Teams will then withdraw behind the 1 mr/hr point and await arrival of the Project 51.1 monitors.

(3) RAD-SAFE teams will notify the Rad-Safety Officer of their survey data as it is determined.

(4) Project 51.1 monitor teams will be released at the observation area by the Rad-Safety Officer after the Test Director has announced R-hour and after the RAD-SAFE monitors have completed their preliminary survey. Teams will be guided to the pic-sector by a RAD-SAFE representative.

(5) Project 51.1 monitor teams will conduct a survey of the pie-sector by directing teams toward ground zero along predetermined radial lines. Situation permitting, teams will establish isointensity lines of predetermined dose-rates not to exceed 5 r/hr. Survey readings will be reported to a control point established in vicinity of coordinates 880982. A R&D-SAFE representative will be located at this control point to enforce established safety criteria and to provide technical assistance when required.

(6) Two (2) stand-by emergency RAD-SAFE monitor teams will be located with the Rad-Safety Officer in vicinity of coordinates 895925.

b. Dosimetry.—See Memo Nr 8, this headquarters.

8. Field decontamination.—See Memo Nr 9, this headquarters.

d. Coordinating instructions.

(1) All radiological survey data will be turned in to the Officer in Charge, NCO-S3 Officer in Bldg T-112, CAMP DESERT ROCK, upon completion of the exercise.

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Annex C (Rad-Safety Plan) to Operation Order 2 (Cont'd)

(2) Safety regulations published in Memo Nr 10, this headquarters will be complied with by all personnel assigned or attached to CAMP DESERT ROCK for participation in the test shot exercise.

(3) All radios and engines will be turned off fifteen (15) minutes before shot time and will remain out of service until five (5) minutes after the detonation.

(4) Recovery teams, other than those operating from CAMP DESERT ROCK, are to be permitted free access through any part of the assigned pie section.

(5) Rad-Safe personnel will be identified by a two-inch band of white Engineer tape mounted around their field caps.

(6) Protective field masks and dust respirators are required for monitor personnel only and will be donned if breathing becomes difficult due to excessive dust, or if dust in the eyes effects vision.

(7) Observers will close and cover their eyes with their hands and face away (180°) from the detonation point when ordered to do so until detonation time plus five (5) seconds.

4. ADMINISTRATION AND LOGISTICS.

a. RAD-SAFE monitor teams will consist of one driver and one monitor, both trained as radio operators.

b. Monitor vehicles and equipment will be spotted in vicinity of coordinates 895925 on D-1 day.

c. Pocket Chamber Dosimeters will be issued on the following basis:

(1) One (1) per VIP.

(2) One (1) per monitor team.

d. Radiac Survey Meters will be issued on the following basis:

(1) AN/PDR-18A. One (1) per RAD-SAFE monitor team.

(2) AN/PDR-T1B.

(a) One (1) per RAD-SAFE monitor team.

(b) Two (2) per Decontamination Station.

(3) AN/PDR-27A. Four (4) per Decontamination Station.

e. Minimum equipment list for RAD-SAFE monitor teams is as follows:

ITEM	QUANTITY
1/4-ton Truck w/radio	1
AN/PDR-18	1
AN/PDR-T1B	1
Sledge or single-bit axe or maul	1

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Annex C (Rad-Safety Plan) to Operation Order 2 (Cont'd)

(2) Safety regulations published in Memo Nr 10, this headquarters will be complied with by all personnel assigned or attached to CAMP DESERT ROCK for participation in the test shot exercise.

(3) All radios and engines will be turned off fifteen (15) minutes before shot time and will remain out of service until five (5) minutes after the detonation.

(4) Recovery teams, other than those operating from CAMP DESERT ROCK, are to be permitted free access through any part of the assigned pie section.

(5) Rad-Safe personnel will be identified by a two-inch band of white Engineer tape mounted around their field caps.

(6) Protective field masks and dust respirators are required for monitor personnel only and will be donned if breathing becomes difficult due to excessive dust, or if dust in the eyes effects vision.

(7) Observers will close and cover their eyes with their hands and face away (180°) from the detonation point when ordered to do so until detonation time plus five (5) seconds.

4. ADMINISTRATION AND LOGISTICS.

a. RAD-SAFE monitor teams will consist of one driver and one monitor, both trained as radio operators.

b. Monitor vehicles and equipment will be spotted in vicinity of coordinates 895925 on D-1 day.

c. Pocket Chamber Dosimeters will be issued on the following basis:

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(1) AN/PDR-18A. One (1) per RAD-SAFE monitor team.

(2) AN/PDR-T1B.

(a) One (1) per RAD-SAFE monitor team.

(b) Two (2) per Decontamination Station.

(3) AN/PDR-27A. Four (4) per Decontamination Station.

e. Minimum equipment list for RAD-SAFE monitor teams is as follows:

ITEM	QUANTITY
1/4-ton Truck w/radio	1
AN/PDR-18	1
AN/PDR-T1B	1
Sledge or single-bit axe or maul	1

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354-15 25 JULY 57

Annex C (Rad-Safety Plan) to Operation Trou 2, Cont'd

ITEM	QUANTITY
Grease pencil (dark color)	1
Compass	1
Flashlight	1
Contamination Marker, 10 mr/hr (on stake)	1
Contamination Marker, 100 mr/hr (on stake)	1
Contamination Markers, Blank (on stakes)	5

f. Uniform as prescribed.

5. COMMAND AND SIGNAL.

- Rad-Safety Officer will be located with Project Monitor Control Point.
- See Appendix 1 for radio call signs, frequency, and RAD-SAFE Control Net.

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Appendixes: 1--Rad-Safe Control Net

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Annex C (Rad-Safety Plan) to Operation ~~True~~ 2, Cont'd

AL

ITEM	QUANTITY
Grease pencil (dark color)	1
Compass	1
Flashlight	1
Contamination Marker, 10 mr/hr (on stake)	1
Contamination Marker, 100 mr/hr (on stake)	1
Contamination Markers, Blank (on stakes)	5

f. Uniform as prescribed.

5. COMMAND AND SIGNAL.

a. Rad-Safety Officer will be located with Project Monitor Control Point.

b. See Appendix 1 for radio call signs, frequency, and RAD-SAFE Control Net.

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Appendixes: 1—Rad-Safe Control Net

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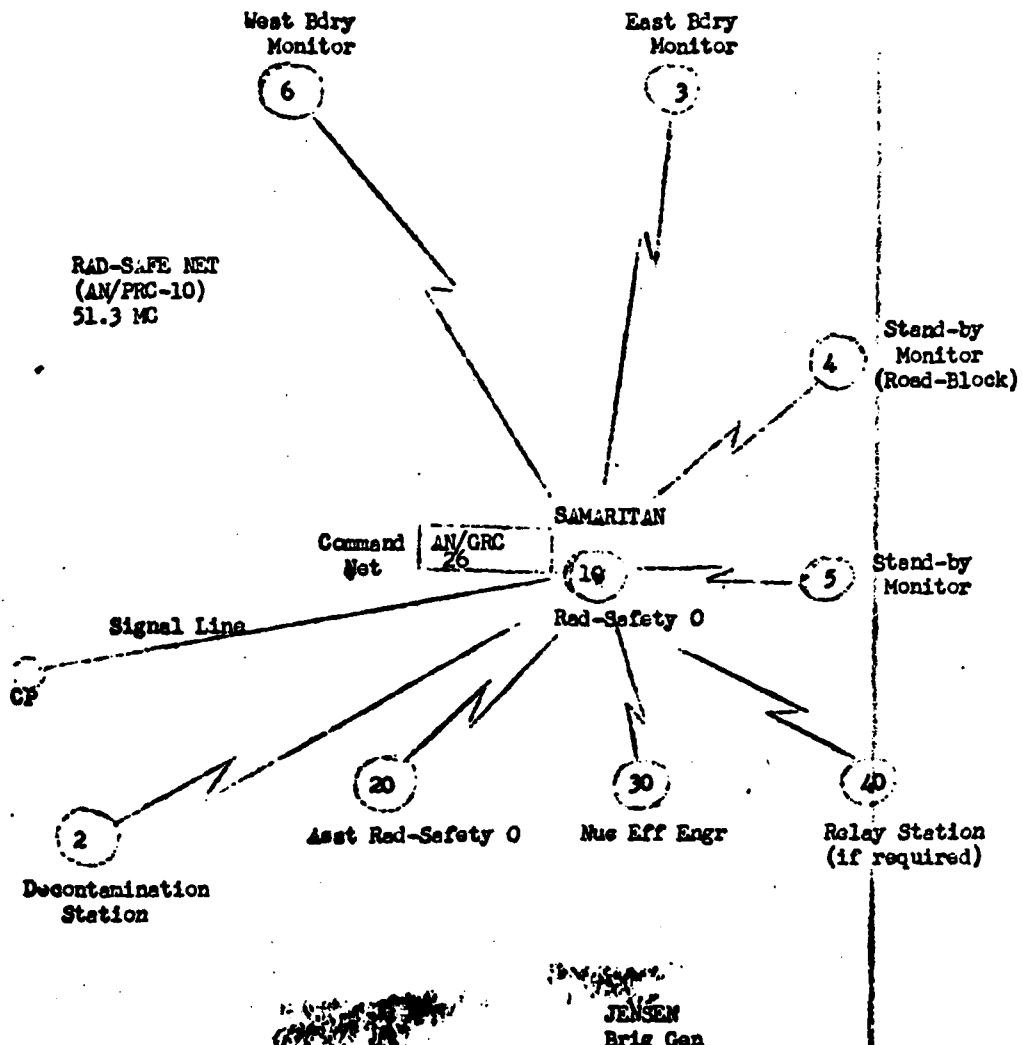
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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Appendix 1 (Rad-Safe Control Net) to Annex C (Rad-Safety Plan) to Opn O 2
Map: NEVADA, 1:50,000, TIPPIAH SPRING and PAPOOSE LAKE Sheets.



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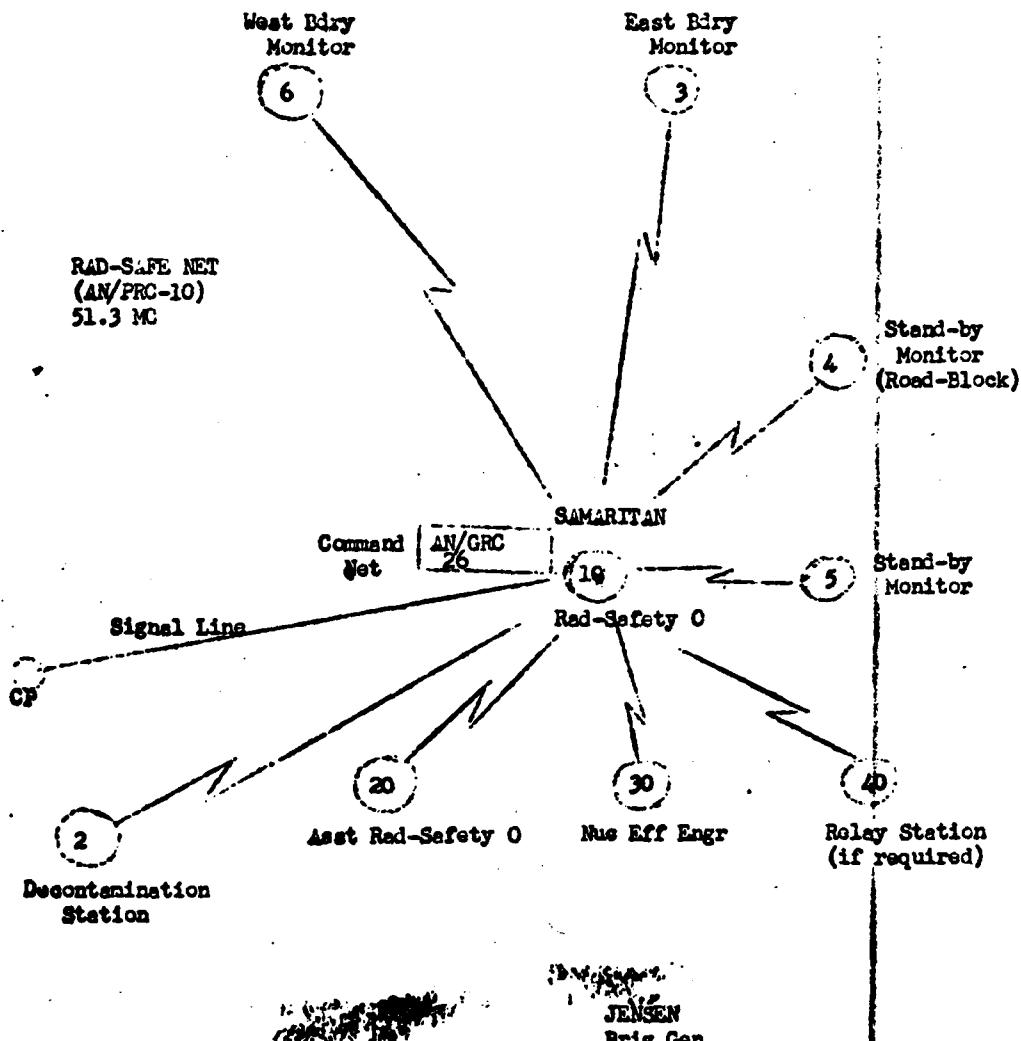
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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Appendix 1 (Rad-Safe Control Net) to Annex C (Rad-Safety Plan) to Opn O 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING and PAPOOSE LAKE Sheets.

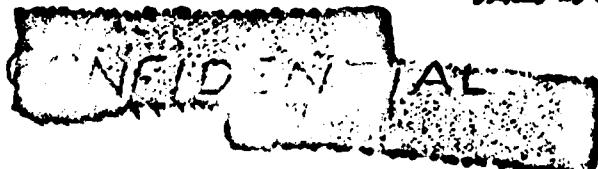


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Rq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex D (Medical) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPoose LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. Aid Station will be established in the YUCCA LAKE observer area (coordinates 895925).
2. Two ambulances, equipped with radios tied in with Camp Desert Rock MP network, will move with the main body (Annex Transportation). Upon arrival at the observer area, ambulances will take up position adjacent to Aid Station.
3. Evacuation of casualties will be by most direct and accessible route to dispensary at Camp Desert Rock.
4. Reserve medical team, with four ambulances, will be on call in Camp Desert Rock area.
5. Air evacuation, from Camp Desert Rock Air Strip to Nellis Air Force Base Hospital, will be on call.

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
15100Q May 1957

Annex D (Medical) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPUOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. Aid Station will be established in the YUCCA LAKE observer area (coordinates 895925).
2. Two ambulances, equipped with radios tied in with Camp Desert Rock MP network, will move with the main body (Annex Transportation). Upon arrival at the observer area, ambulances will take up position adjacent to Aid Station.
3. Evacuation of casualties will be by most direct and accessible route to dispensary at Camp Desert Rock.
4. Reserve medical team, with four ambulances, will be on call in Camp Desert Rock area.
5. Air evacuation, from Camp Desert Rock Air Strip to Nellis Air Force Base Hospital, will be on call.

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex E (Provost Marshal) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. SITUATION.—Omitted.

2. MISSION.—Provost Marshal supports movement of staff and observer group to observer area and return.

3. EXECUTION.

a. 293d MP Company provides four TCPs and one parking area detail.
Annex B, On Overlay.

b. TCP No 1 will direct vehicles straight ahead on MERCURY ROAD.
Positioned 1 mile south of observer turn-off road.

c. TCP No 2 will direct vehicles right on unnamed road to observer area.

d. TCP No 3 will slow vehicles for hazardous dip.

e. TCP No 4 will direct vehicles right to parking area.

f. Parking area detail will assist TC officer (Capt Backus) in parking vehicles and providing security.

g. TCPs will be established just prior to scheduled arrival of convoy.
Annex G, Transportation.

4. ADMINISTRATION AND LOGISTICS.

a. Uniform.—Field cap, long underwear, fatigues, and field jacket.

b. Equipment.—Reflectorized sleeves, batons, markers, flares, pistol belts, canteens, first-aid packets, etc.

5. COMMAND AND SIGNAL.

a. Guard net AAG 700 will be used to control movement to observer area and return.

b. Radio-equipped $\frac{1}{2}$ -ton trucks will be stationed at each TCP and will remain in communications until ordered to leave net.

c. All radios will be turned off and all engines stopped fifteen (15) minutes before shot time and will remain out of service until five (5) minutes after shot.

d. All participating military policemen will synchronize watches prior to movement to site.

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex E (Provost Marshal) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIPAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. SITUATION.—Omitted.

2. MISSION.—Provost Marshal supports movement of staff and observer group to observer area and return.

3. EXECUTION.

a. 293d MP Company provides four TCPs and one parking area detail.
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b. TCP No 1 will direct vehicles straight ahead on MERCURY ROAD.
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g. TCPs will be established just prior to scheduled arrival of convoy.
Annex G, Transportation.

4. ADMINISTRATION AND LOGISTICS.

a. Uniform.—Field cap, long underwear, fatigues, and field jacket.
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b. Radio-equipped $\frac{1}{2}$ -ton trucks will be stationed at each TCP and will remain in communications until ordered to leave net.
c. All radios will be turned off and all engines stopped fifteen (15) minutes before shot time and will remain out of service until five (5) minutes after shot.
d. All participating military policemen will synchronize watches prior to movement to site.

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Annex E (Provost Marshal) to Opn O 2 (Cont'd)

e. TCPs will remain on post until relieved, in time to close in the observer area for the shot.

Appendices: 1—Traffic Control Plan

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Annex E (Provost Marshal) to Opn O 2 (Cont'd)

e. TCPs will remain on post until relieved, in time to close in the observer area for the shot.

Appendices: 1—Traffic Control Plan

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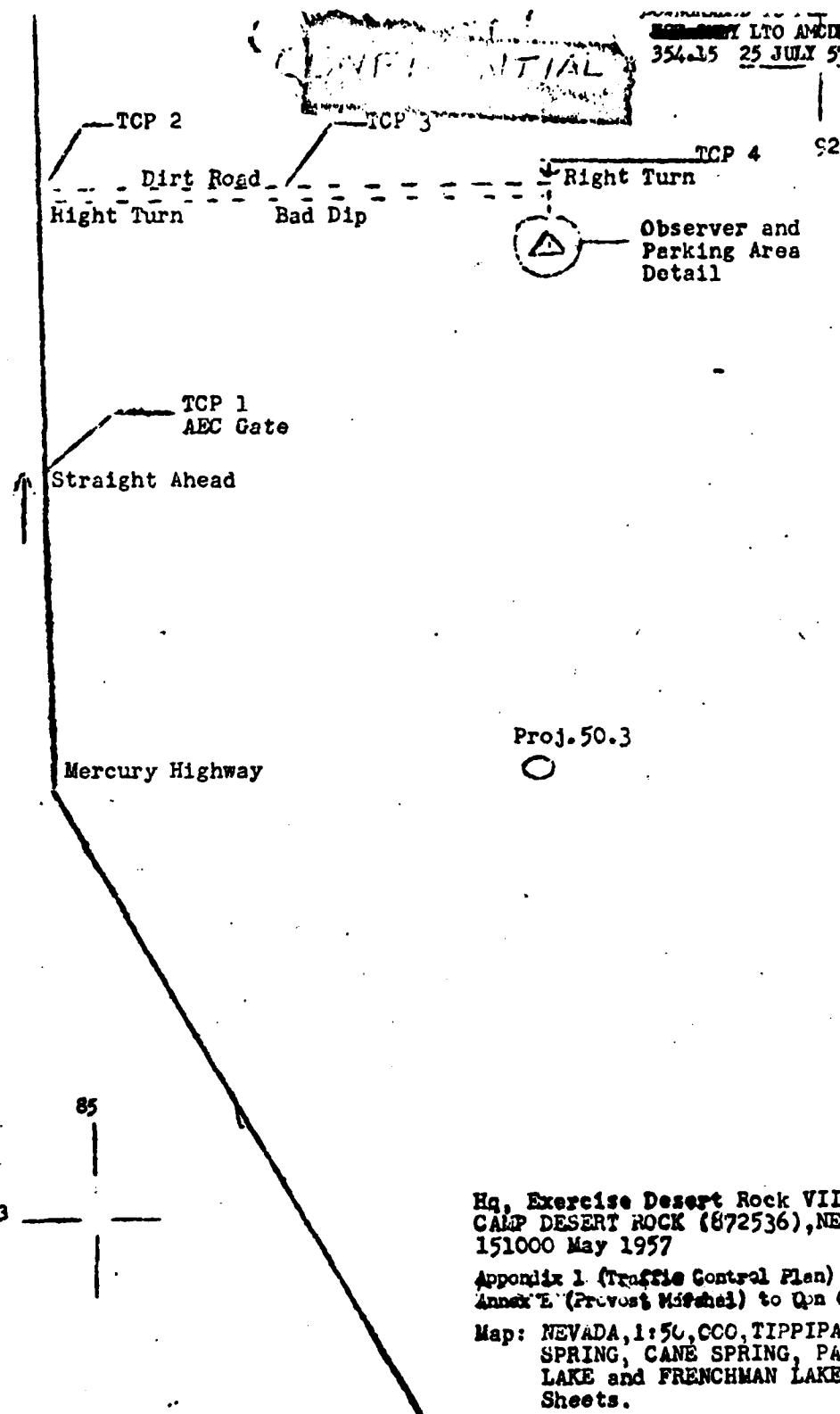
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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Appendix 1 (Traffic Control Plan) to
Annex E (Protest Map) to Opn 02

Map: NEVADA, 1:50,000, TIPPIPAH
SPRING, CANE SPRING, PAPOOSE
LAKE and FRENCHMAN LAKE
Sheets.

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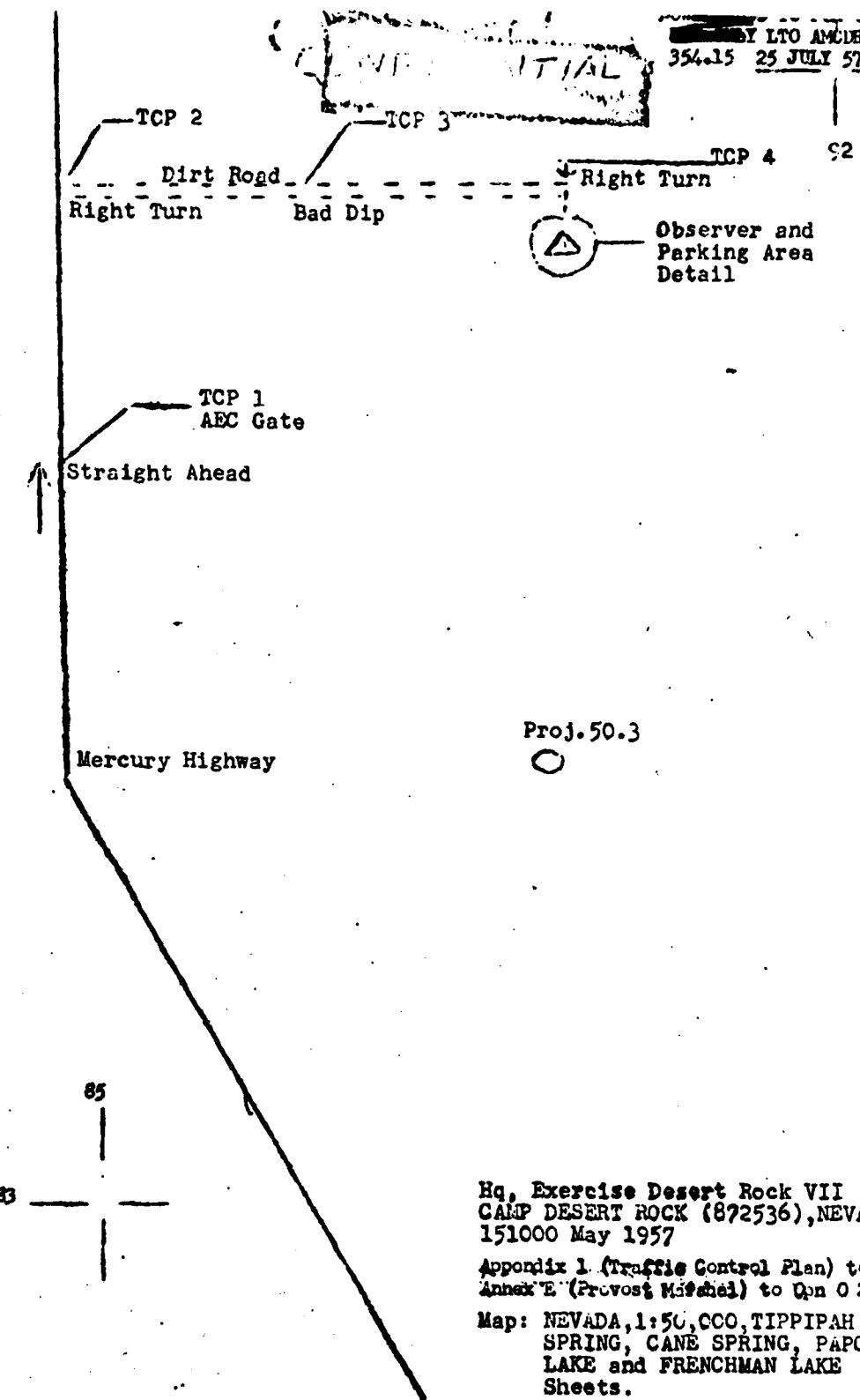
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HQ, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annox F (Signal) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPoose LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. PURPOSE.—To provide continuous communications for observer and Radio-logical monitoring before, during, and after the proposed detonation of shot FRANKLIN on or about 21 May 1957.

2. MISSION.—The 232d Signal Company and attached signal teams will provide all Desert Rock communication services in coordination with DOD Signal personnel, CAMP MERCURY, NEVADA. Photo dosimetry services will be provided by the Photo Dosimetry Team from Lexington Signal Depot, LEXINGTON, KENTUCKY, supported by personnel from the 232d Signal Company.

3. EXECUTION.

a. Radio communications.

(1) Radio silence from H-15 minutes to H-5 minutes.

(2) Radio call signs and frequencies:

(a) Camp Desert Rock, Control Point 1, and Observer Location Net—AN/GRC-26. Call sign: Avalanche, avalanche Alfa, and Avalanche Bravo. Frequency: 2312 KC AM. Alfa station located at observer location will be the net control station. Appendix 1, AN/GRC-26 Net.

(b) DOD Net One. Motorola-type handy talkies to be furnished by DOD will provide communications between CP 1, observer location, and Project 50.3 location. Call sign: Hilltop 61, Hilltop 82, and Hilltop 81, respectively. Purpose of this net is to monitor announcements. Net control station: Hilltop. Appendix 2, Motorola-Type Net.

(c) Back-up net. AN/GRC-9 if required.

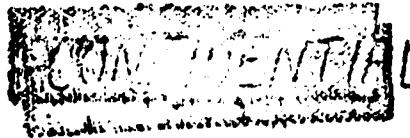
b. Wire communications.—Appendix 3, Wire Circuits.

(1) Line 1.—One wire circuit from Room 223, CP 1, to observer location (coordinates 895925) to be terminated on field telephones (TA 43's) at each end. This direct line is to be used to inform the field commander that all observers at this particular location are "IN PLACE" prior to "COUNT DOWN" time.

(2) Line 2.—One wire circuit from CP 1, picked up at NEWS NOB terminals, to connect into public address system at observer location to monitor "COUNT DOWN" and R-hour announcements.

(3) Line 3.—One wire circuit from radio site at CP 1 to radio site at observer location to be used to get AN/GRC-26's on the air and to serve as a back-up for Line 1.

(4) Line 4.—One wire circuit to serve as a spare back up for all.



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~~COUNTDOWN~~
HQ, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex F (Signal) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING, CAME SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. PURPOSE.—To provide continuous communications for observer and Radio-logical monitoring before, during, and after the proposed detonation of shot FRANKLIN on or about 21 May 1957.

2. MISSION.—The 232d Signal Company and attached signal teams will provide all Desert Rock communication services in coordination with DOD Signal personnel, CAMP MERCURY, NEVADA. Photo dosimetry services will be provided by the Photo Dosimetry Team from Lexington Signal Depot, LEXINGTON, KENTUCKY, supported by personnel from the 232d Signal Company.

3. EXECUTION.

a. Radio communications.

(1) Radio silence from H-15 minutes to H+5 minutes.

(2) Radio call signs and frequencies:

(a) Camp Desert Rock, Control Point 1, and Observer Location Net—AN/GRC-26. Call sign: Avalanche Alfa, and Avalanche Bravo. Frequency: 2312 KC AM. Alfa station located at observer location will be the net control station. Appendix 1, AN/GRC-26 Net.

(b) DOD Net One. Motorola-type handy talkies to be furnished by DOD will provide communications between CP 1, observer location, and Project 50.3 location. Call sign: Hilltop 61, Hilltop 82, and Hilltop 81, respectively. Purpose of this net is to monitor announcements. Net control station: Hilltop. Appendix 2, Motorola-Type Net.

(c) Back-up net. AN/GRC-9 if required.

b. Wire communications.—Appendix 3, Wire Circuits.

(1) Line 1.—One wire circuit from Room 223, CP 1, to observer location (coordinates 895925) to be terminated on field telephones (TA 43's) at each end. This direct line is to be used to inform the field commander that all observers at this particular location are "IN PLACE" prior to "COUNT DOWN" time.

(2) Line 2.—One wire circuit from CP 1, picked up at NEWS NOB terminals, to connect into public address system at observer location to monitor "COUNT DOWN" and R-hour announcements.

(3) Line 3.—One wire circuit from radio site at CP 1 to radio site at observer location to be used to get AN/GRC-26's on the air and to serve as a back-up for Line 1.

(4) Line 4.—One wire circuit to serve as a spare back up for all.

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Annex F (Signal) to Operation Order 2, Cont'd.

(5) Line 5.--One short wire circuit from Room 223, CP 1, to radio van just outside CPL to provide communications into AN/GRC-26 radio net.

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Appendices: 1--AN/GRC-26 Net
2--Motorola-Type
3--Wire Circuits

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Annex F (Signal) to Operation Order 2, Cont'd.

(5) Line 5.--One short wire circuit from Room 223, CP 1, to radio van just outside CP1 to provide communications into AN/GRC-26 radio net.

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Appendices: 1--AN/GRC-26 Net
2--Motorola-Type
3--Wire Circuits

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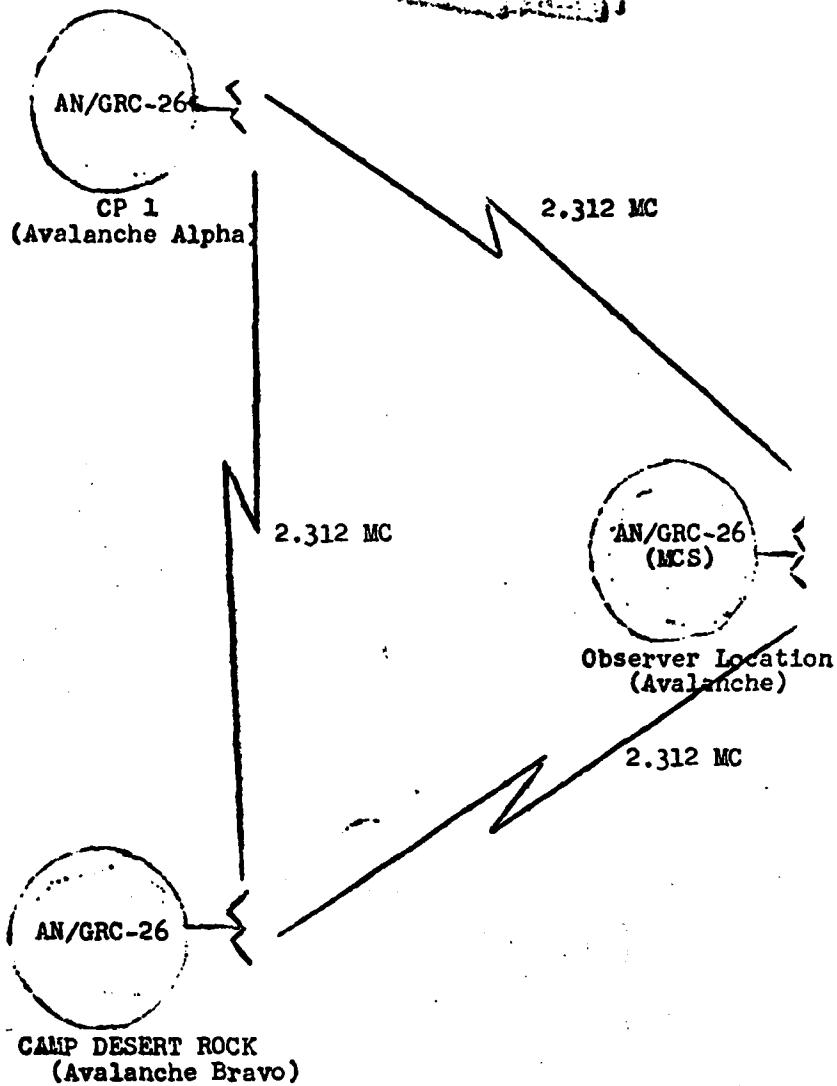
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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Appendix 1 (AN/GRC-26 Net) to
Annex F (Signal) to Opn O 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING,
CAVE SPRINGS, SPECTOR RANGE, PAPOOSE
LAKE, FRENCHMAN LAKE and MERCURY Sheets.

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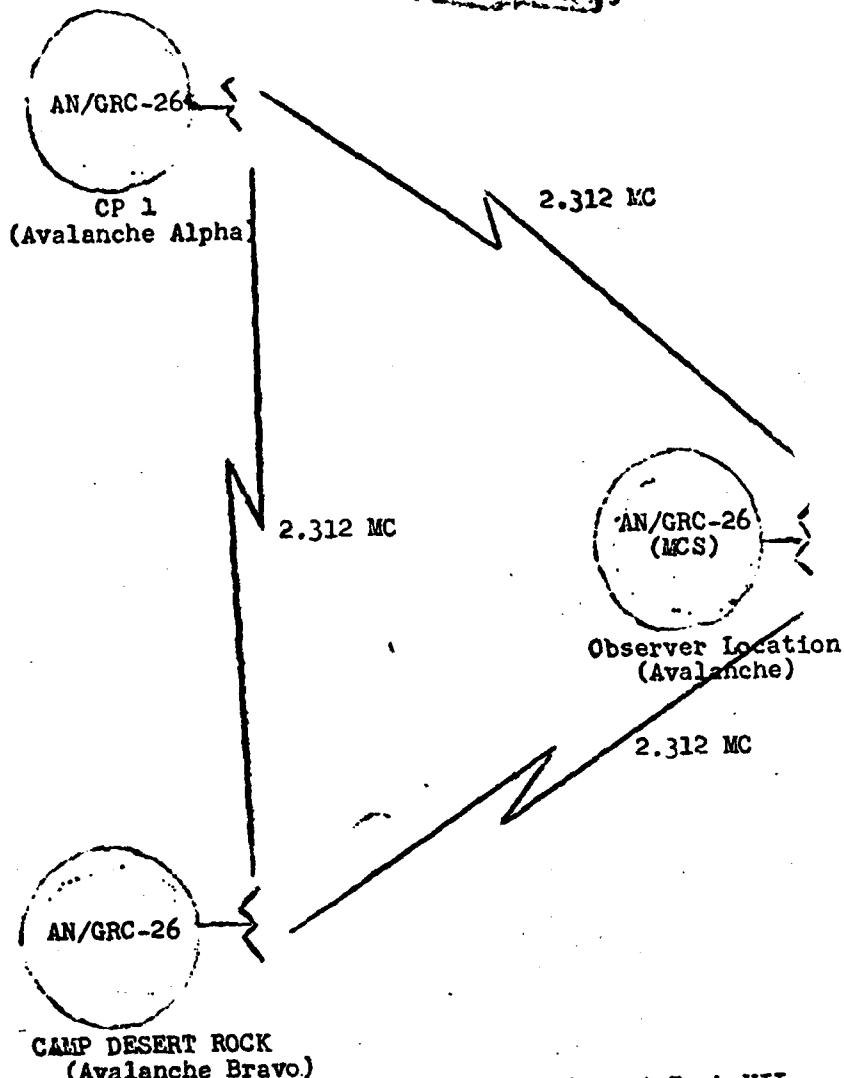
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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Appendix 1 (AN/GRC-26 Net) to
Annex F (Signal) to Opn O 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING,
CANES SPRINGS, SPECTOR RANGE, PAPOOSE
LAKE, FRENCHMAN LAKE and MERCURY Sheets.

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Motorola
Type
Handy-Talkie

Observer Location
(Hill Top 82)

Motorola
Type
Handy-Talkie
(NCS)

CP 1
(Hill Top 61)

Motorola
Type
Handy-Talkie

Project 50.3
(Hill Top 81)

Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536) NEVADA
151000 May 1957

Appendix 2 (Motorola-Type Net)
to Annex F (Signal) to Opn O 2

Map: NEVADA, 1:50,000, TIPPIPAH
SPRING, CANE SPRINGS, SPECTOR
RANGE, PAPOOSE LAKE, FRENCHMAN
LAKE and MERCURY Sheets.

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REF ID: A624615
15 JULY 57

Motorola
Type
Handy-Talkie

Observer Location
(Hill Top 82)

Motorola
Type
Handy-Talkie
(NCS)

CP 1
(Hill Top 61)

Motorola
Type
Handy-Talkie

Project 50.3
(Hill Top 81)

Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536) NEVADA
151000 May 1957

Appendix 2 (Motorola-Type Net)
to Annex F (Signal) to Opn O 2

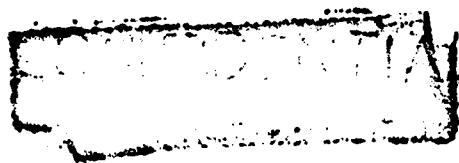
Map: NEVADA, 1:50,000, TIPPIPAH
SPRING, CANE SPRINGS, SPECTOR
RANGE, PAPOOSE LAKE, FRENCHMAN
LAKE and MERCURY Sheets.

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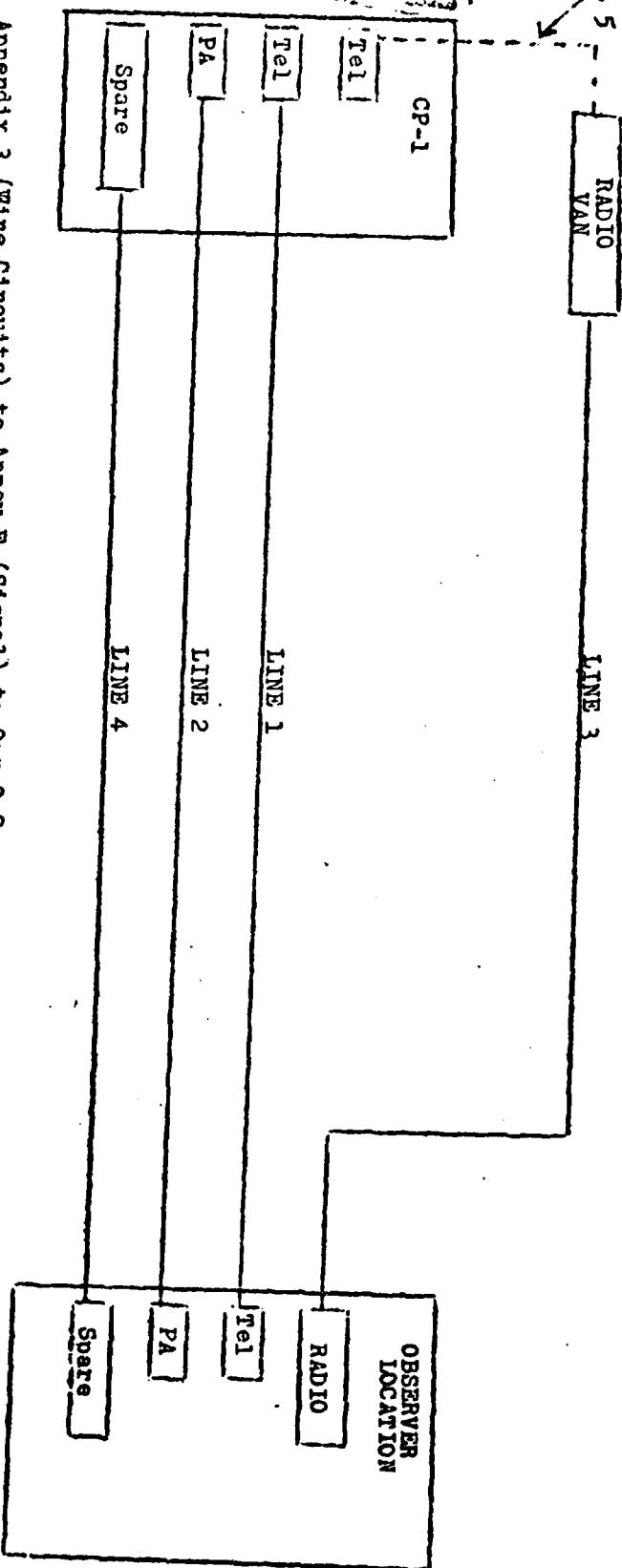


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Camp Desert Rock (872536), Nevada
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Appendix 3 (Wire Circuits) to Annex F (Signal) to Open O 2
Map: NEVADA, 1:50,000, TIPPIAH SPRINGS, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

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Camp Desert Rock (872536), Nevada
151000 May 1957



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OBSERVER
LOCATION

RADIO

Tel

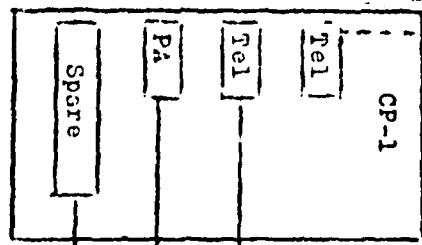
PA

Spare

LINE 1

LINE 2

LINE 4



Appendix 3 (Wire Circuits) to Annex F (Signal) to Opn O 2
Map: NEVADA, 1:50,000, TIPPIAH SPRINGS, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex G (Transportation) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

VEHICLE ROSTER (FRANKLIN)

A-1	- 1/4-Ton (Serial Comdr)	A-8	- 37-Pass Bus
A-2	- 37-Pass Bus	A-9	- 37-Pass Bus (Empty)
A-3	- 37-Pass Bus	A-10	- Ambulance, Metro
A-4	- 37-Pass Bus	A-11	- Ambulance, 3/4-ton
A-5	- 37-Pass Bus	A-12	- Wrecker, M-62
A-6	- 37-Pass Bus	A-13	- 1/4-ton (Trail Officer)
A-7	- 37-Pass Bus		

MARCH TABLE

Serial Comdr	Rate of March	Type of Column	Time Length	Critical Points	ETA	Latest Clearance
Capt Sackett	25Mph	Closed	5	(IP)MP Gate	0050	0055
	25Mph	Closed	5	Mer Ck Pt Nr 1	0057	0102
	25Mph	Closed	5	Mer Ck Pt Nr 2	0102	0107
	35Mph	Open	5	Cp Yucca Pass	0142	0147
	35Mph	Open	5	AEC Roadblock	0145	0150
	15Mph	Closed	5	TCP Nr 2	0148	0153
	15Mph	Closed	5	Parking Area	0203	0208

NOTE: Vehicles will move faster than indicated above when conditions permit.
Above timing is maximum required for the movement.

Convoy Comdr: Capt Backus

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex G (Transportation) to Operation Order 2

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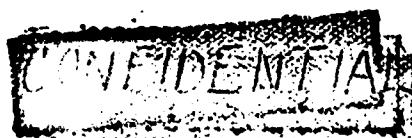
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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK, (872536), NEVADA
15100 May 1957

Annex H (Emergency Evacuation Plan) to Operation Order 2

Map: NEVADA, 1:50,000, TIPPIAH SPRING, CANE SPRINGS, SPECTOR RANGE, PAPOOSE LAKE, FRENCHMAN LAKE, and MERCURY Sheets.

1. PURPOSE.—To outline the procedure to be followed to accomplish the total evacuation of the NEVADA TEST SITE in case of emergency.

2. EXECUTION.—Personnel will be prepared to execute a total evacuation of the forward area at any time on D-day.

a. Evacuation will be to the south in the following order:

- (1) Decontamination Station (coordinates 843888).
- (2) Check Gate Nr 2, Camp Mercury (coordinates 914605).
- (3) Camp Desert Rock motor pool (coordinates 872537).

b. Serial commander will be responsible for the movement of his vehicles during the evacuation and for maintaining the proper march discipline. Order to entruck and move out will be given by the Control Group Commander.

c. Vehicle commanders will be responsible for the orderly loading and movement of their groups on order of the serial commander.

d. Following procedure will be observed in the observer area:

(1) Provost Marshal will report for orders to the Control Group Commander.

(2) Observer personnel will assemble on order and entruck in vehicles under the supervision of the vehicle commander.

(3) Control Group will assemble directly behind the control area and entruck on order of the Control Group Commander.

(4) Vehicles will be dispatched from the parking area by the TC representative in march unit order to the entrucking area on order of the Control Group Commander.

(5) Control Group will evacuate the test area on order of the Deputy Exercise Director when it is assured that all other Desert Rock troops have been evacuated.

e. Coordinating instructions.

(1) Maximum vehicle speed will be 35 MPH.

(2) March units will remain intact during all movements.

(3) MP vehicles and ambulances will have road priority during evacuation.

(4) Necessary decontamination will be effected as soon as possible upon reaching the designated place of safety.

(5) Code designation to implement this plan is CONDITION THUNDER.

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CAMP DESERT ROCK, (872536), NEVADA
15100 May 1957

Annex H (Emergency Evacuation Plan) to Operation Order 2

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Annex H (Emergency Evacuation Plan) to Operation Order 2 (Cont'd)

(6) CONDITION THUNDER will be transmitted by the most readily available means and will be authenticated by the Post Rad-Safe Officer.

(7) CONDITION THUNDER will be announced in the observer area by seven short siren blasts with 30-second intervals between groups. All means of communications will be used to reach all Desert Rock personnel.

(8) Windows in vehicles will be closed when practical.

(9) Individuals will refrain from eating or smoking during the evacuation.

3. MEDICAL EVACUATION.

a. Aid station will treat casualties, if any, to the limit of its capability. When observer area is evacuated, aid station will move with the Control Group.

b. Ambulances will evacuate casualties to the Hospital Unit at CAMP DESERT ROCK. Ambulances will have road priority.

c. Route of evacuation for casualties will be the most direct route available.

4. COMMAND.—Forward CP, Exercise Desert Rock VII, will control the evacuation from such location as affords the best control, but will not evacuate the forward area until all Desert Rock groups are accounted for. New CP location will be announced prior to movement in each case.

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Annex H (Emergency Evacuation Plan) to Operation Order 2 (Cont'd)

(6) CONDITION THUNDER will be transmitted by the most readily available means and will be authenticated by the Post Red-Safe Officer.

(7) CONDITION THUNDER will be announced in the observer area by seven short siren blasts with 30-second intervals between groups. All means of communications will be used to reach all Desert Rock personnel.

(8) Windows in vehicles will be closed when practical.

(9) Individuals will refrain from eating or smoking during the evacuation.

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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

Annex I (Distribution List) to Operation Order 2

<u>UNITS</u>	<u>COPY NR</u>
CG, US CONRC, Attn: G3	1-4
CG, Sixth US Army, Attn: G3	5-6
CG, Sixth US Army, Attn: PIO	7
Comdr, Flt Comd, IFSWP, Mercury	8-13
CG, Camp Irwin, Attn: G3	14-16
Executive Officer, Camp Desert Rock	17
S-1, Camp Desert Rock	18
S-2, Camp Desert Rock	19
S-3, Camp Desert Rock	20-24
S-4, Camp Desert Rock	25
Hq Comdt, Camp Desert Rock	26
Sig Off, Camp Desert Rock	27
PM, Camp Desert Rock	28
Chemical Off, Camp Desert Rock	29
Engr, Camp Desert Rock	30
PIO, Camp Desert Rock	31
Chief, Instructor Group Section, Camp Desert Rock	32
CO, 26th TC Bn	33
CO, Hosp Unit, 8th Field Hosp	34
CO, 232d Sig Co	35
CO, 50th Chemical Plat	36
Post Aviation Off	37
Project Off, Project 50.3	38
Project Off, Project 50.7	39
Project Off, Project 51.1	40
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Hq, Exercise Desert Rock VII
CAMP DESERT ROCK (872536), NEVADA
151000 May 1957

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Chief, Instructor Group Section, Camp Desert Rock	32
CO, 26th TC Bn	33
CO, Hosp Unit, 8th Field Hosp	34
CO, 232d Sig Co	35
CO, 50th Chemical Plat	36
Post Aviation Off	37
Project Off, Project 50.3	38
Project Off, Project 50.7	39
Project Off, Project 51.1	40
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Hq. Exercise Desert Rock VII
C-100 DESERT ROCK (872536), NEVADA
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Operation Order 1

Map: NEVADA, 1:50,000, TIPPIHUE SPRINGS, JANE SPRINGS, SPECTOR RANGE, PAROCHE LAKE, FRIEDMAN LAKE, and MARCJAY Sheets.

Time Zone: Pacific Daylight Time

Task Organization: Annex A, Task Organization.

1. SITUATION.— The Atomic Energy Commission detonates an atomic device (BOLTZMAN) at H-hour on D-day which will be observed by approximately 51 US Army, 67 US Air Force, and 132 US Navy observers. After the shot personnel will monitor in the ground-zero area, and Ordnance and Signal field tests will be performed.
 2. MISSION.— HQ, Exercise Desert Rock VII, supervises and coordinates Desert Rock Army, Navy, and Air Force participation in shot BOLTZMAN in area T-7c in the NEVADA TEST SITE commencing at H-hour on D-day to:
 - a. Indoctrinate selected observers in effects of atomic weapons (Project 53.3 and selected personnel from the post staff).
 - b. Track the movement of radioactive clouds, determine the height of the clouds, and investigate the feasibility of special and standardized Army radar equipment for such use (Project 50.3).
 - c. Observe operability of various types of Ordnance equipment under blast, thermal, and radioactivity effects of nuclear explosions (Project 50.7).
 - d. Conduct monitoring exercises to train passive-defense personnel in radiological defense techniques (Project 53.4).
 3. EXECUTION:
 - a. Concept of operation.— Personnel from the Exercise Desert Rock VII staff and Desert Rock Projects 51.1, 53.3, and 53.4 will observe Shot BOLTZMAN from a safe position in the 1000' PIECE OF THE EARTH LINE (Annex E, Opn Overlay). Shortly after the shot, Desert Rock red-suit personnel will monitor and mark the assigned pie segment. Upon announcement of R-hour, personnel from Project 53.4 will move to the pie segment and conduct monitoring exercises. Project 50.3 will operate radar equipment from approved site. Project 50.7 will position equipment in approved locations (in cooperation with AFSWP & Proj 2.4).
 - b. 50th Chemical Plat.— Provides radiation safety support as required. Annex C, Rad-Safety Plan.
 - c. Co B, 84th Engg Bn (Reinf).— Provide engineer support as required.

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